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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,656	04/21/2004	Martin G. Hartung	58493US003	4923

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EXAMINER

BERHANU, SAMUEL

ART UNIT	PAPER NUMBER
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2838

NOTIFICATION DATE	DELIVERY MODE
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05/01/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/828,656	Applicant(s) HARTUNG ET AL.	
	Examiner SAMUEL BERHANU	Art Unit 2838	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 32-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 32-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 02/06/2008 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 32, 35-36 and 39 are rejected under 35 U.S.C. 102(b) as being anticipated by Maeda et. al. (US 5,861,729).

3. Regarding Claim 32, Maeda et al disclose in Figures 1 and 2, a battery powered handpiece, comprising, a sensing contact (28) for detecting electrolytic current flow (noted that the detected battery current can be regarded as an electrolytic current, since batteries typically employ a combination of electrolytic members or electrolytic solutions, and the battery current pass through this solution or medium)

between a first charging contact (24), for connection to a first contact of a battery (8), and a second charging contact (26), for connection to a second contact of a battery (10).

Regarding Claim 35, Maeda et. al. disclose in Figures 1-3, a diode (14) located between said first charging contact (8) and said first contact of said battery for allowing charging current to flow from said first charging contact into said battery but preventing current flow in opposite direction.

Regarding Claim 36, Maeda et. al. disclose in Figures 1-3, a sensing pin (28) detecting electrolytic current flow between a first charging pin (10) and a second charging pin (12) (noted that when element 2 is on hook condition then the current flows between two charging pins, 10 and 12, is sensed by the current detector).

Regarding Claim 39, Maeda et. al. disclose in Figures 1-3, wherein said sensing pin of said charger device (30) is in contact with a sensing pin at said headpiece if said headpiece is connected to the charger device so that said sensing pin at said charger device further detects current flow between said first and second charging contacts of said handpiece, said current flow having a potential for initiating an electrochemical reaction (noted that for examination purpose examiner assumed that "contacts" meant to refer pins).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et. al. (US 5,861,729) in view of Kawashima (US 2002/0074970).

Regarding Claim 33, Maeda et. al. do not disclose explicitly, a magnet co-operating with a magnetically activatable switch arranged in a charger device, for initiating a charging operation once the battery-powered handpiece is eclectically connected to said charger device. However, Kawashima discloses in Figures 1A-6, a magnet co-operating with a magnetically activatable switch (14, 24) arranged in a charger device, for initiating a charging operation once the battery-powered handpiece is eclectically connected to said charger device (see also paragraphs 0027-0029). It would have been obvious to a person having ordinary skill in the art at the time of the invention to use a magnetic switch with Maeda et al. charger, for the benefit of allowing the circuit to only operate when a device with a magnetic means is brought into close proximity.

Regarding Claim 34, Kawashima discloses in Figures 1A-6, wherein said magnet (24) is arranged in proximity to the housing of the handpiece.

6. Claims 37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al. (US 5,861,729) in view of Compoly et al. (US 3,851,322).

Regarding Claim 37, Maeda does not disclose explicitly, a warning means for giving a warning signal if current flow between said first and second charging pins is sensed by said sensing pin. However, Compoly et al. disclose in Figure 2, a warning means (14a) for giving a warning signal if current flow between said first and second

charging pins is sensed by said sensing pin (see Abstract, Column 1, lines 60-67). It would have been obvious to a person having ordinary skill in the art at the time of the invention to use a short circuit monitoring means with a warning signal as taught by Compoly et al. in Maeda et al. device in order to monitor short circuit in the device.

Regarding Claim 38, Compoly et al. disclose in Figures 1 and 2, comprising said warning means (202) provides and acoustic and/or optical warning.

7. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et. al. (US 5,861,729) in view of Inaba et. al. (US 5,945,809)

Regarding Claim 40, Maeda et. al. do not disclose explicitly, an electronic switch connected to said sensing pins of said charger device for disconnecting a charging voltage applied to said first and second charging pins if current flow is sensed by said sensing pin. However, Inaba et. al. disclose in Figures 1-6, Column 2, lines 65-67 and Column 3, lines 1-10, an electronic switch connected to said sensing pins of said charger device for disconnecting a charging voltage applied to said first and second charging pins if current flow is sensed by said sensing pin. It would have been obvious to a person having ordinary skill in the art at the time of the invention to add a short – circuit protection means in Maeda et. al. circuit in order to prevent the battery from catching fire due to generation of heat.

8. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et. al. (US 5,861,729) in view of Inukai et. al. (US 5,867,798).

Regarding Claim 41, Maeda et. al. do not disclose explicitly, a detector for detecting the presence or absence of said battery powered handpiece and a switch for

switching on/off the charging voltage dependent on detection of the presence/absence of said handpiece. However, Inukai et. al. disclose in Figure 1, a detector (16) for detecting the presence or absence of said battery powered handpiece and a switch (Q1) for switching on/off the charging voltage dependent on detection of the presence/absence of said handpiece (noted when device 3 is placed on the charger, 12, the charge control unit detects electrical connection between the charger and the battery terminals and activate the transistor accordingly). It would have been obvious to a person having ordinary skill in the art at the time of the invention to add a control means that activates a switch when the charger and the rechargeable device electrically meet as taught by Inukai et. al. in Maeda et. al. device in order to control the charging current.

9. Claims 42-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et. al. (US 5,861,729) in view of Inukai et. al. (US 5,867,798), and further in view of Watabe et. al. (US 5,793,186).

Regarding Claim 42, neither Maeda et. al. nor Inukai et. al. disclose wherein said switch is selected from the group comprising mechanical switches, optical switches, electromechanical switches, electro-optical switches or magnetic switches. However, Watabe et. al. disclose in Figures 1 and 2, switch is selected from the group comprising mechanical switches, optical switches, electromechanical switches, electro-optical switches or magnetic switches (see also column 1, lines 38-42). It would have been obvious to one having ordinary skill in the art at the time of this invention to use a magnetic switch as taught by Watabe with the charger of Maeda, for the benefit of

allowing the circuit to only operate when a device with a magnetic means is brought into close proximity.

Regarding Claim 43, Watabe et. al. discloses, the magnetic switch comprises a magnetically activatable switch being operable in response to a magnet arranged in said handpiece (See Column 1, lines 38-42).

Regarding Claim 44, Watabe et. al. disclose wherein said magnetically activatable switch comprises a Reed Switch (Column 1, lines 38-42)

Regarding Claim 45, Inukai et. al. disclose in Figures 1 and 2, switch allowing a charging voltage to be applied to said charging pins in the presence of said handpiece.

10. Claims 47-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et. al. (US 5,861,729) in view of Kennedy (US 5,233,283).

Regarding Claims 47 and 49, Maeda et. al. do not disclose explicitly, wherein said a handpiece is a dental tool. However, Kennedy discloses a dental cure light (Column 2, line 42- 45). It would have been obvious to one having ordinary skill in the art at the time of this invention to Maeda's charging circuit with the ability to distinguish between nickel-hydride and nickel-cadmium battery packs, to charge a battery of Kennedy's dental tool.

Regarding Claims 48 and 50, Kennedy discloses a dental cure light (Column 2, line 42- 45).

Response to Arguments

1. Applicant's arguments filed 02/06/2008 have been fully considered but they are not persuasive.

2. In response to the “electrolytic current flow” , the detected battery current can be regarded as an electrolytic current, since batteries typically employ a combination of electrolytic members or electrolytic solutions, and the battery current pass through this solution or medium
3. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMUEL BERHANU whose telephone number is (571)272-8430. The examiner can normally be reached on M-F.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Adolf Berhane/
Adolf Berhane
Primary Examiner
Art Unit 2838

SB

<div>Application Number</div> <div></div>	Application/Control No.	Applicant(s)/Patent under Reexamination	
	10/828,656	HARTUNG ET AL.	
	Examiner	Art Unit	
	SAMUEL BERHANU	2838	